



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-11-06-06 Date: 20-09-2019
 Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
 Address : Byatarayanapura Sub Division, BBMP, Bangalore.
 Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
 Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
 Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 17-09-2019
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 18-09-2019

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Fineness by Air permeability method (m ² /kg, Min)	285.3	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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 Samples will be disposed after 90 days from the date of issue of test certificate

At Ward No 5

20.09.19
 ಮಹಾನ್ ಕಾರ್ಯಪಾಲಕ ಅಧ್ಯಯೋಗ್ಯ
 ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್
 ಮ.ರ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-14.

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****End of Report****

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R. K. R.

R KARTHIK RECHAN

Authorized Signatory
 Quality Manager



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
 GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-11-06-06 Date: 16-10-2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05
Byatarayanapura Sub Division.

Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-
560 045.

Customer's Reference : BBMP/EE/BTP/WO/91/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 18-09-2019

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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AS per M5
20.0N
20.00 N, 20.00-24



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-11-06-06 Date: 20-09-2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 17-09-2019
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 17-09-2019

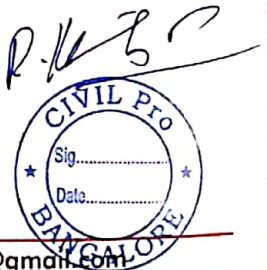
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	—

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ಇದರಲ್ಲಿ 338 ಗ್ರಾಂಮ್ಸ್ 4.75 ಮಿಮಿ ಸೀವ್‌ನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 14662 ಗ್ರಾಂಮ್ಸ್ 10 ಮಿಮಿ ಸೀವ್‌ನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 5676 ಗ್ರಾಂಮ್ಸ್ 20 ಮಿಮಿ ಸೀವ್‌ನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 254 ಗ್ರಾಂಮ್ಸ್ 40 ಮಿಮಿ ಸೀವ್‌ನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 0 ಗ್ರಾಂಮ್ಸ್ 80 ಮಿಮಿ ಸೀವ್‌ನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 338 ಗ್ರಾಂಮ್ಸ್ ಪ್ಯಾನಿನಲ್ಲಿ ಟ್ರಾಪ್ ಆಗಿದೆ.
ಇದರಲ್ಲಿ 15000 ಗ್ರಾಂಮ್ಸ್ ಟಾಟಲ್ ತೂಕ.
ಇದರಲ್ಲಿ 100% ಕುಮ್ಯುಲೇಟಿವ್ ರೆಟೇನ್ಡ್.
ಇದರಲ್ಲಿ 0% ಪಾಸ್ಸಿಂಗ್.
ಇದರಲ್ಲಿ 100% ರೀಕ್ವೈರ್ಡ್ ಅಸ್ ಪರ್ ಇಸ 383:2016.



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-11-06-06

Date: 20-09-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.22	—

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager



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****End of Report****



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-11-06-06 Date: 19-09-2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-09-2019
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 17-09-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

100% Satisfactory
Byatarayanapura Sub Division
BBMP, Bangalore-24





Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2019-11-06-06

Date: 19-09-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Handwritten signature and text in Kannada script.

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Handwritten signature of R. Karthik Rechan.

R KARTHIK RECHAN

Authorized Signature

Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-11-06-06 Date: 19-09-2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05
Byatarayanapura Sub Division.

Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560
045.

Customer's Reference : BBMP/EE/BTP/WO/91/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1. 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 17-09-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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2019-09-24

2019-09-24

2019-09-24



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-11-06-06

Date: 19-09-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Handwritten signature of R. Karthik Rechan.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2019-11-06-06 Date: 23-09-2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05
Byatarayanapura Sub Division.

Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/91/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-2019

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 21-09-2019

SL.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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R. Karthik Rechan

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Quality Manager



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TEST REPORT OF PRECAST COVER SLAB

Date: 01-10-2019

Lab ID : CP-2019-11-06-06

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.

Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.

Customer's Reference : BBMP/EE/BTP/WO/91/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-2019

Sample Type /Size : Precast Cover Slab(100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 27/09/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

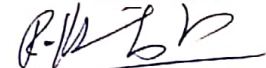
Lab ID : CP-2019-11-06-06 Date: 09-10-2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-10-2019
Sample Type /Size : CC Kerb Stone/ 450*165*400mm
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 03/10/2019

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	CP-2019-11-06-06	Date: 16-10-2019
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.	
Agency	:	Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.	
Customer's Reference	:	BBMP/EE/BTP/WO/91/2019-20	
Source of sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-10-2019	
Identification Mark on Brick	:	Wire Cut Brick	
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)	
Date of test	:	10-10-2019	

COMPRESSIVE STRENGTH

SLNo.	Length (mm)	Breadth (mm)	Area (mm ²)	Failure Load (kN)	Compressive strength of individual bricks (N/mm ²)	Acceptability as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

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 ಸಚಿವರು
 ಬೆಂಗಳೂರು
 20.05.2014

P. V. L. R.



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID

: CP-2019-11-06-06

Date: 16-10-2019

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm ²)	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate' upto class 12.5 and 'slight' for higher classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

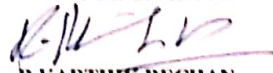
DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

Note:

The results pertain to the samples received and tested.
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R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager



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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-06-06 Date: 01/10/2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-09-2019
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M20	24/09/2019	01/10/2019	150.17 X	22443	8.878	415.2	18.5	18.5
					149.45 X					
					150.69					
2	RCC	M20	24/09/2019	01/10/2019	149.25 X	22643	8.872	411.7	18.2	
					151.71 X					
					150.50					
3	RCC	M20	24/09/2019	01/10/2019	149.01 X	22435	8.609	423.2	18.9	
					150.56 X					
					150.63					

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Handwritten signatures and stamps in Kannada script.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-11-06-06 Date: 22/10/2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-09-2019
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2019

Date of test : 22/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M20	24/09/2019	22/10/2019	149.86 X	22612	8.106	539.3	23.9	23.4
					150.88 X					
					150.13					
2	RCC	M20	24/09/2019	22/10/2019	149.81 X	22456	8.599	505.6	22.5	
					149.90 X					
					150.46					
3	RCC	M20	24/09/2019	22/10/2019	150.95 X	22864	8.036	543.3	23.8	
					151.47 X					
					149.43					

Note:

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R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager





TEST REPORT OF CERAMIC TILES

Lab ID : CP-2019-11-06-06 Date: 25-10-2019
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Repair Works to Govt Hospital Building at Agrahara Layout in Ward no.05 Byatarayanapura Sub Division.
Agency : Sri.Prakash Naik.H, #3, 5th Cross, Lawrence Layout, Arabic College, Bangalore-560 045.
Customer's Reference : BBMP/EE/BTP/WO/91/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-10-2019
Sample Type/ Size : Ceramic tiles (400X400)mm
Reference to BIS codes : IS 13630 (part 1) : 2006, IS 15622:2006
Date of test : 17-10-2019

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	20.04	20.01	20.08	20.04
2	400	400	400	400	20.01	20.07	20.01	20.01
3	400	400	400	400	20.03	20.05	20.06	20.03
4	400	400	400	400	20.06	20.05	20.08	20.06
5	400	400	400	400	20.08	20.06	20.05	20.08
6	400	400	400	400	20.03	20.07	20.07	20.07
7	400	400	400	400	20.08	20.05	20.08	20.07
8	400	400	400	400	20.02	20.05	20.04	20.05
9	400	400	400	400	20.04	20.04	20.02	20.04
10	400	400	400	400	20.04	20.01	20.05	20.04
Average	400		400		20.05			

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2025/10/25
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Bangalore
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Signature: _____

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1408	1459	3.62	3.08
2	1422	1464	2.95	
3	1466	1498	2.18	
4	1408	1458	3.55	
5	1434	1478	3.07	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No	Dimension (mm)			Wet Transverse Strength	Average
SL.No.	L	B	T	(N/mm ²)	(N/mm ²)
1	400	400	20.04	14.8	14.66
2	400	400	20.06	14.2	
3	400	400	20.02	14.9	
4	400	400	20.06	14.8	
5	400	400	20.05	14.6	

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